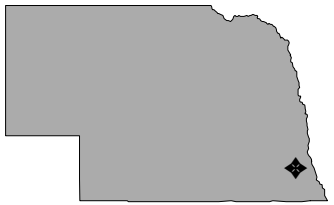
# Nebraska Ordnance Plant — NPL

**Size:** 17,214 acres
**Mission:** Performed ordnance storage and manufacturing activities
**HRS Score:** 31.94; placed on NPL in August 1990
**IAG Status:** IAG signed in September 1991
**Contaminants:** Explosives, VOCs, and PCBs
**Media Affected:** Groundwater and soil
**Funding to Date:** $52.6 million
**Estimated Cost to Completion (Completion Year):** $49.8 million (FY2031)
**Final Remedy in Place or Response Complete Date for All Sites:** FY2005



*Mead, Nebraska*

## Restoration Background

From 1942 to 1956, the Nebraska Ordnance Plant produced munitions at four bomb-loading lines, stored munitions, and produced ammonium nitrate. The property also contained burn areas, an Atlas Missile facility, and a sewage treatment plant. Most of the property is now owned by the University of Nebraska and used as an agricultural research station. Other parts of the property are owned by the Nebraska National Guard and private entities. The U.S. Army Corps of Engineers (USACE) has identified soil contaminated with polychlorinated biphenyls (PCBs) and munitions, and on-site and off-site groundwater contaminated with explosives and volatile organic compounds (VOCs).

In FY94, USACE completed a Remedial Investigation and Feasibility Study (RI/FS) for soil contamination and prepared a draft final RI/FS report for groundwater. A Time-Critical Removal Action for PCBs was completed.

In FY95, a Record of Decision (ROD) on incineration of contaminated soil at Operable Unit (OU) 1 was approved. USACE completed the Proposed Plan and the FS report for groundwater contamination at OU2 and Phase I RI fieldwork at OU3. EPA approved the final Engineering Evaluation and Cost Analysis (EE/CA) and the design for Removal Actions for two trichloroethene (TCE)-contaminated groundwater plumes. USACE installed activated carbon canister treatment systems to treat contaminated drinking water in on-site wells and completed field investigations to identify explosives waste. A draft EE/CA of the investigation was submitted.

In FY96, USACE completed the Remedial Design (RD) for the OU1 incinerator. The draft final ROD for contaminated groundwater at OU2 was completed. USACE completed the PCB Removal Action, the ordnance and explosives EE/CA and Action Memorandum, and the decision documents for the Removal Action at OU2. The Phase II RI field investigation for OU3 also was completed.

In FY97, USACE converted the technical review committee to a Restoration Advisory Board (RAB). The RAB provided information to the public on incinerator issues. Full public acceptance was achieved by the end of the trial burn testing. Meetings with the Lower Platte Natural Resource District addressed potential beneficial reuse of treated groundwater.

Construction for the Remedial Action (RA) at OU1 was completed. The draft final RI and draft final Baseline Risk Assessment for OU3 were finished. The design for building demolition and debris removal at the Load Line Buildings was completed. An ordnance and explosives Removal Action was accomplished. USACE provided point-of-use water treatment to residences whose water was affected by the groundwater plume and awarded the contract for the groundwater containment Removal Action.

## FY98 Restoration Progress

USACE completed operations of the OU1 incinerator, treating over 16,000 tons of explosives-contaminated soil. The final RA report was approved by EPA in September.

Construction on the OU2 groundwater containment RA began and was nearing completion at the end of the FY98. The 60 percent design for the full-scale system was submitted. USACE coordinated with local stakeholders, local and state government, and the RAB to ensure that the groundwater containment system can accommodate any beneficial reuse of extracted groundwater. The OU3 RI was submitted and approved. However, the Army agreed to do further characterization of several areas. Asbestos removal at the Load Line Buildings was completed. Demolition is approximately 50 percent complete.

## Plan of Action

- Begin operation of OU2 containment RA in FY99
- Complete RD of full-scale groundwater RA in FY99
- Complete additional characterization fieldwork for OU3 in FY99
- Complete demolition of Load Line Buildings in FY99
- Award contract for construction of groundwater RA in FY00
- Submit OU3 FS in FY00

## FY99 Funding by Phase and Relative Risk